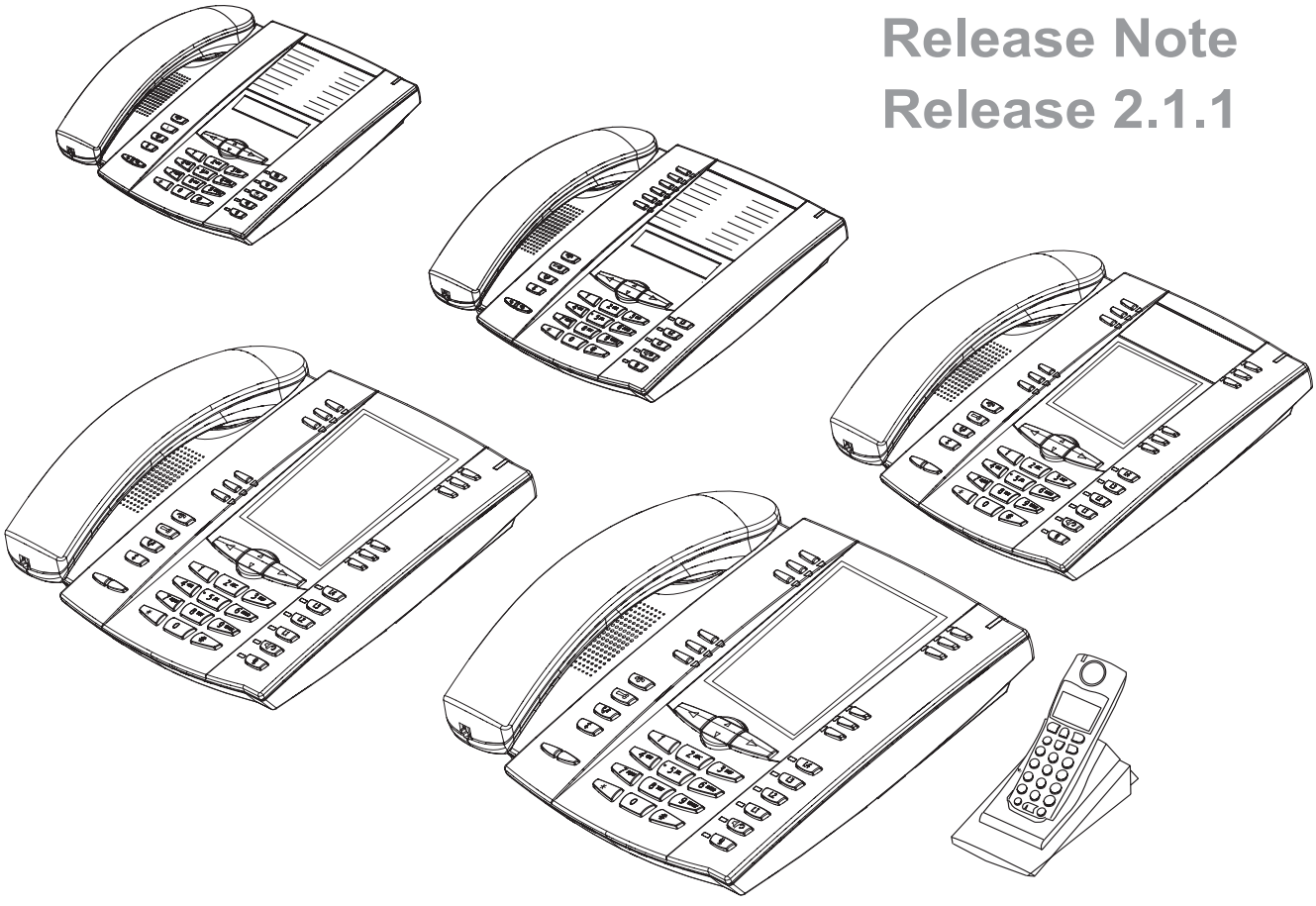
MODEL
51i, 53i, 55i, 57i, and 57i CT

SIP IP PHONE

RN-001029-00
Rev 04

Release Note
Release 2.1.1



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SIP IP Phone Models 51i, 53i, 55i, 57i, and 57i CT Release Note 2.1.1

About this Document

This document provides an overview of the 2.1.1 features on the 5i Series phones (51i, 53i, 55i, 57i, and 57i CT).

For more detailed information about the features associated with each phone, and for information on how to use the phones, see your model-specific *SIP IP Phone Installation Guide* and the *SIP IP Phone User Guide*. For detailed information about more advanced features, see the *SIP IP Phone Administrator Guide*.

Topics in this release note include:

- General Information
  (release content, hardware supported, bootloader requirements)
- Features in Release 2.1.1
- Issues Resolved on Series 5i Phones in Release 2.1.1, Build 65
- Contacting Aastra Telecom Support

General Information

Release Content Information

This document provides release content information on the Aastra 51i, 53i, 55i, 57i, and 57i CT SIP IP phone firmware.

Model	Release Name	Release Version	Release Filename	Release Date
51i	Generic SIP	2.1.1	FC-001126-00-02	September 2007
53i	Generic SIP	2.1.1	FC-001086-00-05	September 2007
55i	Generic SIP	2.1.1	FC-001087-00-05	September 2007
57i	Generic SIP	2.1.1	FC-001088-00-05	September 2007
57i CT	Generic SIP	2.1.1	FC-001089-00-05	September 2007

Hardware Supported

This release of firmware is compatible with the following Aastra IP portfolio products:

- 51i
- 53i
- 55i
- 57i
- 57i CT

Bootloader Requirements

This release of firmware is compatible with the following Aastra IP portfolio product bootloader versions:

- 51i - Bootloader 2.0.1.1055 or higher
- 53i - Bootloader 2.0.1.1055 or higher
- 55i - Bootloader 2.0.1.1055 or higher
- 57i - Bootloader 2.0.1.1055 or higher
- 57i CT - Bootloader 2.0.1.1055 or higher

Features in Release 2.1.1

This section describes the new features included in Release 2.1.1 of the 5i Series IP Phones. The following table summarizes the new features.

Feature	Description
DHCP Options 60 & 43, Server Configuration	Phones now support use of DHCP options 60 and 43 as per RFC 2132.
53i Configurable Save and Delete Keys	The 53i Save and Delete keys are now configurable.
Support of Various Language Input Characters	Phones now support the text and characters you input on the phone in different languages.
XML Override for a Locked Phone	Phones now support an XML override when a phone is locked.
Locking/Unlocking the Phone via XML	An Administrator can now unlock and lock a remote phone when required.
Configurable Priority Alerting Cadences	An Administrator can now customize the Bellcore Cadences for priority alerting.
Speeddial Key Editing via IP Phone UI	The “Press-and-Hold” Speeddial feature can now be edited via the IP Phone UI. Previous to this release, you could only edit a speeddial key via the Aastra Web UI.
Enhancements to “Incoming Call Interrupts Dialing” Feature	The “Incoming Call Interrupts Dialing” feature has been redesigned to perform more efficiently.
Memory Status Now Displays in Task Status	“**Free Memory”** and “**Max Memory Block Size**” status now displays when an Administrator **Shows Task and Stack Info** for troubleshooting purposes.
Configurable DNS Queries	An Administrator can now choose from the following DNS query methods for finding SIP servers: • **eNone** (A is active) • **eSRV** (SRV and A are active) • **eNAPTR|eSRV** (NAPTR&SRV with A are active)

DHCP Options 60 & 43, Server Configuration

The Aastra phones now support Option 60 and Option 43 as per RFC 2132.

Option 60 (Vendor Class Identifier) provides the DHCP server with a unique identifier for each phone model. This enables a system administrator to send the phone a customized Server Configuration in option 43. The table below lists the identifier values use for each phone model.

Model	Identifier Value
51i	AastraIPPhone51i
53i	AastraIPPhone53i
55i	AastraIPPhone55i
57i	AastraIPPhone57i
57i CT	AastraIPPhone57iCT

The System administrator can use the Vendor Class Identifier to send the phone a customized Server Configuration in option 43 (Vendor-Specific information).

Note: If Aastra IP Phones receive the server configuration from both DHCP Option 66 and DHCP Option 43, then Option 43 takes precedence over Option 66.

Using Option 43 to Customize the Phone

A System Administrator can customize the IP Phone(s) in the network by entering a text string in the phone's configuration files. The following is an Option 43 example using Linux.

On the startup of the phones, when the DHCP server receives the request with the information in this example, it allows the 57i phones to use FTP and the 57i CT phones to use TFTP from the same server.

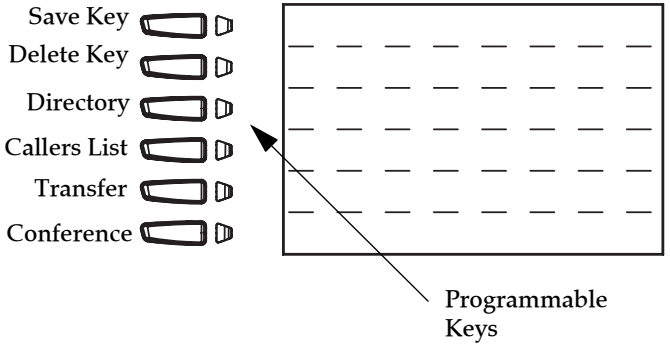
Linux Example

A System Administrator can enter the following in the Aastra IP Phone configuration file:

```
option space AastraIPPhone57i;
option AastraIPPhone57i.cfg-server-name code 02 = text;

option space AastraIPPhone57iCT;
option AastraIPPhone57iCT.cfg-server-name code 02 = text;

Subnet 192.168.1.0 netmask 255.255.255.0 {

  class "vendor-class-57i" {
    match if option vendor-class-identifier="AastraIPPhone57i";
    vendor-option-space AastraIPPhone57i;
    option AastraIPPhone57i.cfg-server-name "ftp://
username:password@10.10.10.1";
  }
  class "vendor-class-57iCT" {
    match if option vendor-class-identifier="AastraIPPhone57iCT";
    vendor-option-space AastraIPPhone57iCT;
    option AastraIPPhone57iCT.cfg-server-name "tftp://
10.10.10.1";
  }
}
```

53i Configurable Save and Delete Keys

There are six function keys on the 53i phone located to the left of the paper label. The **Save** and **Delete** keys (Keys 1 and 2) were previously not programmable. In Release 2.1.1, the **Save** and **Delete** keys on the 53i can now be programmed with the same functions that are available for the other programmable keys. Only the System Administrator can unlock these keys.



Locking/Unlocking the "Save" and "Delete" Keys

The **Save** key allows you to save entries to the Directory and perform a Save-To from the Callers List. It also allows you to save speeddial information to a programmable key. You can also use the **Save** key while using specific XML applications.

The **Delete** key allows you to remove entries from the Directory List and Callers List. (Must enter the Directory or Callers list and select an entry, then press twice to delete entry).

By default, the **Save** and **Delete** keys are locked so that a user can use them for saving and deleting only. An Administrator can unlock these keys using the configuration files, allowing the keys to be programmed with other functions if required. An Administrator can use the following parameters in the configuration file to lock and unlock the **Save** and **Delete** keys:

- **`prgkey1 locked`**
- **`prgkey2 locked`**

The value of "**0**" unlocks the keys, and the value of "**1**" locks the keys. The default is "1" (lock).

The following is an example of unlocking the **Save** and **Delete** keys using the configuration files:

Example:

- `prgkey1 locked: 0`
- `prgkey2 locked: 0`

Once the **Save** and **Delete** keys are unlocked, a User can change the function of the keys using the Aastra Web UI. An Administrator can change the function of the keys using the Aastra Web UI or the configuration files.

IMPORTANT: If you change the functions of the **Save** and **Delete** keys, and then an Administrator locks Keys 1 and 2, the functions are automatically set back to the default settings of "**Save**" and "**Delete**".

For more information about configuring programmable keys on the 53i, using the Aastra Web UI, see the ***Aastra SIP 53i IP Phone User Guide***. For more information about configuring programmable keys using the configuration files, see the ***Aastra SIP 53i, 55i, 57i, and 57i CT Administrator Guide.***

Note: The **Save** and **Delete** functions are limited to Key 1 and Key 2 on the 53i IP phone only.

Save and Delete Key Configuration File Parameters

An Administrator can use the following parameters to lock and unlock the **Save** and **Delete** keys on the 53i IP Phone.

Parameter– *prgkey1 locked*	**Configuration Files**aastra.cfg, <mac>.cfg
Description	Allows you to lock or unlock the **Save** key on the 53i IP Phone. When the **Save** key is unlocked, a User can change the function of the key using the Aastra Web UI. An Administrator can change the function of the key using the Aastra Web UI or the configuration files. **Note**: **1.** The save function on the 53i IP Phone is limited to Key 1 only. **2.** Changing the function from the **Save** key to another function, removes the ability to save items on the IP phone.
Format	Boolean
Default Value	1 (lock)
Range	0 (unlock) 1 (lock)
Example	prgkey1 locked: 0

Parameter– *prgkey2 locked*	**Configuration Files**aastra.cfg, <mac>.cfg
Description	Allows you to lock or unlock the **Delete** key on the 53i IP Phone. When the **Delete** key is unlocked, a User can change the function of the key using the Aastra Web UI. An Administrator can change the function of the key using the Aastra Web UI or the configuration files. **Note**: **1.** The delete function on the 53i IP Phone is limited to Key 2 only. **2.** Changing the function from the **Delete** key to another function, removes the ability to delete items on the IP phone.
Format	Boolean
Default Value	1 (lock)
Range	0 (unlock) 1 (lock)
Example	prgkey2 locked: 0

Support of Various Language Input Characters

The 5i Series phones now support text and character inputs in various languages (English, German, French, Spanish, and Italian).

Inputting textual or character information into the IP Phone UI, Aastra Web UI, and XML scripts can now be done in various languages using the keypad on the phone. The System Administrator and User can enable this feature using the Aastra Web UI or the IP Phone UI. An Administrator can also use the configuration files to enable this feature. Users can then use text and characters in a specific language when performing inputs on the phone.

The following tables identify the language characters that a User can enter on the 5i Series phones that support the Input Language feature.

Keypad Input Alphabet Tables

English

Key	Uppercase Characters	Lowercase Characters
0	0	0
1	1.:;=_,-'&()	1.:;=_,-'&()
2	ABC2	abc2
3	DEF3	def3
4	GHI4	ghi4
5	JKL5	jkl5
6	MNO6	mno6
7	PQRS7	pqrs7
8	TUV8	tuv8
9	WXYZ9	wxyz9
*****	* <SPACE>	* <SPACE>
#	#/\@	#/\@

French

Key	Uppercase Characters	Lowercase Characters
0	0	0
1	1.:;=_,-'&()	1.:;=_,-'&()
2	ABC2ÀÂÇÁÅÆ	abc2àâçáåæ
3	DEF3ÉÈÊË	def3éèêë
4	GHI4ÎÏ	ghi4îï
5	JKL5	jkl5
6	MNO6ÑÓÒÔÖ	mno6ñóòôö
7	PQRS7	pqrs7
8	TUV8ÚÙÛÜ	tuv8úùûü
9	WXYZ9	wxyz9
*	* <SPACE>	* <SPACE>
#	#/\@	#/\@

Spanish

Key	Uppercase Characters	Lowercase Characters
0	0	0
1	1.:;=_,-'&()	1.:;=_,-'&()
2	ABC2ÁÀÇ	abc2áàç
3	DEF3ÉÈ	def3éè
4	GHI4ÏÍ	ghi4ïí
5	JKL5	jkl5
6	MNO6ÑÓÒ	mno6ñóò
7	PQRS7	pqrs7
8	TUV8ÚÜ	tuv8úü
9	WXYZ9	wxyz9
*	* <SPACE>	* <SPACE>
#	#/\@	#/\@

German

Key	Uppercase Characters	Lowercase Characters
0	0	0
1	1.:;=_,-'&()	1.:;=_,-'&()
2	ABC2ÄÀ	abc2äà
3	DEF3É	def3é
4	GHI4	ghi4
5	JKL5	jkl5
6	MNO6Ö	mno6ö
7	PQRS7ß	pqrs7ß
8	TUV8Ü	tuv8ü
9	WXYZ9	wxyz9
*	* <SPACE>	* <SPACE>
#	#/\@	#/\@

Italian

Key	Uppercase Characters	Lowercase Characters
0	0	0
1	1.:;=_,-'&()	1.:;=_,-'&()
2	ABC2ÀCÇ	abc2àcç
3	DEF3ÉÈË	def3éèë
4	GHI4	ghi4
5	JKL5	jkl5
6	MNO6ÓÒ	mno6óò
7	PQRS7	pqrs7
8	TUV8Ù	tuv8ù
9	WXYZ9	wxyz9
*	* <SPACE>	* <SPACE>
#	#/\@	#/\@

Configuring Language Input Using the Configuration Files

An Administrator can specify the input language to use by entering a specific parameter in the configuration files. An Administrator must enter the following parameter to enable this feature:

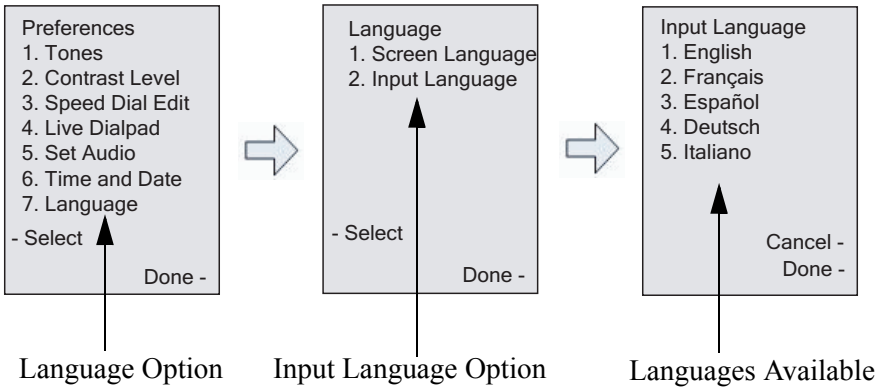
- `input language`

Parameter– *input language* *Input Language* (in Web UI)	**IP Phone UI:** **Aastra Web UI:** **Configuration Files**	Language->Input Language Basic Settings->Preferences->Language Settings aastra.cfg, <mac>.cfg
Description	Allows you to specify the language to use for inputs on the IP Phone. Entering a language value for this parameter allows users to enter text and characters in the IP Phone UI, Aastra Web UI, and in XML applications via the keypad on the phone, in the language(s) specified.	
Format	Text	
Default Value	English	
Range	Valid values are: • English • French • Français • German • Deutsch • Italian • Italiano • Spanish • Español	
Example	input language: French input language: Español	

Configuring Language Input Using the IP Phone UI

Once "Language Input" is enabled, an Administrator or User can change the input language on the phone using the IP Phone UI. The "**Input Language**" option appears under the Language option in the IP Phone UI.

Example



Use the following procedure to change the input language using the IP Phone UI.

Aastra IP Phone UI

Step	Action
1	Press the **Options** key.
2	Select **Language** from the Options List.
3	Select **Input Language** from the Language List.

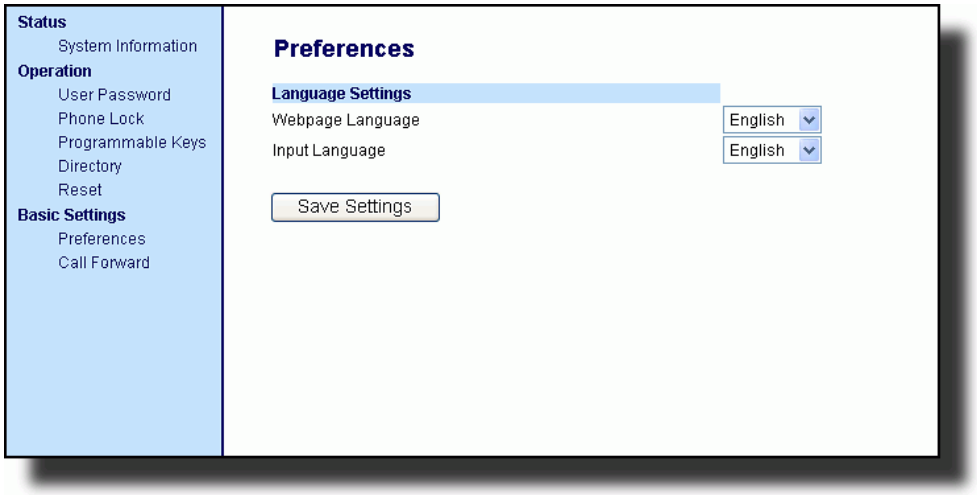
Aastra IP Phone UI

Step	Action
4	Select the language you want to use on the IP phone for inputting text and characters. Valid values are: • English (default) • Français (French) • Español (Spanish) • Deutsch (German) (not applicable to 57i CT cordless handset) • Italiano (Italian) (not applicable to 57i CT cordless handset) • **Note:** Available input languages are dependent on the configuration enabled by your System Administrator.
5	Press **Done** when you have selected a language.

Configuring Language Input Using the Aastra Web UI

Once “Language Input” is enabled, an Administrator or User can also change the input language on the phone using the Aastra Web UI. The “**Input Language**” option appears at the path ***Basic Settings->Preferences->Language Settings.***

Use the following procedure to set the input language using the Aastra Web UI.

Aastra Web UI	
1	Click on **Basic Settings-> Preferences->Language Settings.** 
2	Select a language from the "**Input Language**" field. Setting this field allows you to specify the language to use when entering text in the Aastra Web UI, IP Phone UI, or in XML applications on the phone. Valid values are: • English (default) • Français (French) • Español (Spanish) • Deutsch (German) (not applicable to 57i CT cordless handset) • Italiano (Italian) (not applicable to 57i CT cordless handset) **Note:** Available input languages are dependent on the configuration enabled by your System Administrator.
3	Click to save your changes.

Configuring Language Input for an XML Application

A System Administrator can enable input languages in XML applications using the **<AastraIPPhoneInputScreen>** object and the "**inputLanguage**" attribute. The "**inputLanguage**" attribute can have a value of any of the following:

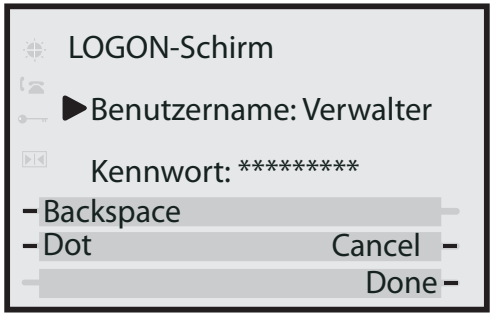
- English
- French
- Français
- German
- Deutsch
- Italian
- Italiano
- Spanish
- Español

The following is an example of an XML script using the "**inputLanguage**" attribute with a value of "**German**".

***XML Example*:**

```
<AastraIPPhoneInputScreen Beep=Yes inputLanguage="German">
    <Title>Login Screen</Title>
    <Prompt>User ID:</Prompt>
    <Prompt>Password:</Prompt>
    <URL>http://10.50.10.53/script.pl</URL>
    <Parameter>UserID</Parameter>
    <Parameter>Password</Parameter>
    <Default></Default>
<AastraIPPhoneInputScreen>
```

***XML Screen Example*:**



The screen above shows the user input of "**Verwalter**" in German.

Note: If a non-supported value is used with the "**inputLanguage**" attribute in the XML script, the phone uses the input language that was configured using the Aastra Web UI or the IP Phone UI. If the parameters are not set in the Aastra Web UI or the Phone UI, the phone uses the default of "**English**".

XML Override for a Locked Phone

The IP phones now have a feature that allows a locked phone to be overridden when an XML application is sent to the phone. This feature also allows you to still use any softkeys/programmable key/Extension Module Keys applicable to the XML application even though the phone is locked. However, any keys NOT associated with the XML application cannot be used when the phone is locked.

Also, XML Get Requests override the locked feature on the phone so that any softkey pressed by the user that initiates a Get Request continues to get sent.

To allow the overriding of the locked phone for XML applications, the System Administrator must enter the following parameter in the configuration files:

- **`xml lock override`**

Parameter– *xml lock override*	**Configuration Files** aastra.cfg, <mac>.cfg
Description	Specifies the method to use for overriding a locked phone when XML applications are sent to the phone. There are three settings for this parameter: **0** Phone prevents XML POSTs and XML GETs from being received or sent. **1** Phone allows XML POSTs; however, XML GETs by pressing the XML keys (softkeys/programmable keys/extension module keys) are not allowed. **2** Phone allows XML POSTs to the phone as well as XML GETs to/from the phone by pressing the XML keys (softkeys/programmable keys/ extension module keys).
Format	Integer
Default Value	0
Range	0 to 2
Example	xml lock override: 1

Locking/Unlocking the Phone via XML

New XML Execute Commands have been implemented on the phones that allow a remote phone to be locked or unlocked. These command attributes are called "**Lock**" and "**Unlock**".

- Lock - This command locks a remote phone.
- Unlock - This command unlocks a remote phone, allowing an Administrator to update its configuration if required.

The following examples use the "**Lock**" and "**Unlock**" attributes with the Execute Command.

Example 1:

```
<AastraIPPhoneExecute>
<ExecuteItem URI="Command: Unlock"/>
</AastraIPPhoneExecute>
```

The phone gets unlocked.

Example 2:

Server sends XML Execute to the phone using HTTP POST.

```
<AastraIPPhoneExecute>
<ExecuteItem URI="Command: Lock"/>
</AastraIPPhoneExecute>
```

The phone gets locked.

Example 3:

Phone is getting booted.

Startup Action URI is called.

Server responses with:

```
<AastraIPPhoneExecute>
<ExecuteItem URI="Command: Unlock"/>
<ExecuteItem URI="http://server:port/pathtosoftkeyconfig"/>
</AastraIPPhoneExecute>
```

The phone gets unlocked and the second URL gets loaded.

Configurable Priority Alerting Cadences

The Bellcore cadences on the IP phones for priority alerting are now configurable.

How Priority Alerting Works

When the IP phone detects an incoming call, the phone firmware inspects the INVITE request in the IP packet for an "Alert-Info" header.

If it contains an "Alert-Info" header, the firmware strips out the URL and keyword parameter and maps it to the appropriate Bellcore tone.

If there is no keyword parameter in the "Alert-Info" header, or the INVITE message contains no "Alert-Info" header, then the IP phone firmware uses the Bellcore standard ring tone.

The ring tone keywords that can display in the "Alert-Info" header are:

Ring Tone Keywords
Bellcore-dr2 Bellcore-dr3 Bellcore-dr4 Bellcore-dr5

The following table identifies the different Bellcore ring tone patterns and cadences.

Bellcore Tone	Pattern ID	Pattern	Cadence	Minimum Duration (ms)	Nominal Duration (ms)	Maximum Duration (ms)
(Standard)	1	Ringing Silent	2s On 4s Off	1800 3600	2000 4000	2200 4400
Bellcore-dr2	2	Ringing Silent Ringing Silent	Long Long Long	630 315 630 3475	800 400 800 4000	1025 525 1025 4400
Bellcore-dr3	3	Ringing Silent Ringing Silent Ringing Silent	Short Short Long	315 145 315 145 630 2975	400 200 400 200 800 4000	525 525 525 525 1025 4400
Bellcore-dr4	4	Ringing Silent Ringing Silent Ringing Silent	Short Long Short	200 145 800 145 200 2975	300 200 1000 200 300 4000	525 525 1100 525 525 4400
Bellcore-dr5	5	Ringing		450	500	550

The Bellcore cadences in the above table are now configurable using the configuration files only.

Configuring the Bellcore Cadences

Use the following parameters to configure the Bellcore Cadences:

- **`bellcore cadence dr2`**
- **`bellcore cadence dr3`**
- **`bellcore cadence dr4`**
- **`bellcore cadence dr5`**

Parameter– *bellcore cadence dr2*	**Configuration Files** aastra.cfg, <mac>.cfg
Description	Sets the cadence for Bellcore-dr2. **Note:** You can define up to 8 cadence rings. The value of -1 indicates “do not repeat”.
Format	Integer
Default Value	800,400, 800,4000
Range	N/A
Example	bellcore cadence dr2: 800, 400, 800, 4000

Parameter– *bellcore cadence dr3*	**Configuration Files** aastra.cfg, <mac>.cfg
Description	Sets the cadence for Bellcore-dr3. **Note:** You can define up to 8 cadence rings. The value of -1 indicates “do not repeat”.
Format	Integer
Default Value	400,200,400,200,800,4000
Range	N/A
Example	bellcore cadence dr3: 400,200,400,200,800,4000

Parameter– *bellcore cadence dr4*	**Configuration Files** aastra.cfg, <mac>.cfg
Description	Sets the cadence for Bellcore-dr4. **Note:** You can define up to 8 cadence rings. The value of -1 indicates “do not repeat”.
Format	Integer
Default Value	300,200,1000,200,300,4000
Range	N/A
Example	bellcore cadence dr4: 300,200,1000,200,300,300,200,4000

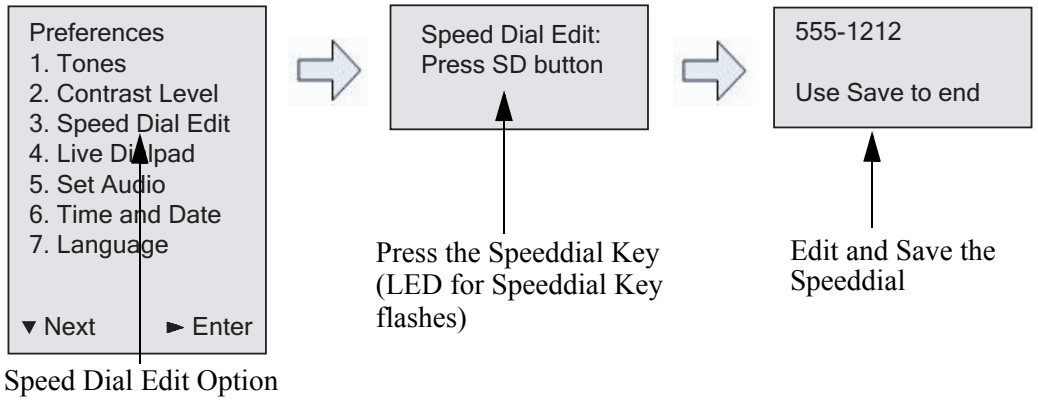
Parameter– *bellcore cadence dr5*	**Configuration Files** aastra.cfg, <mac>.cfg
Description	Sets the cadence for Bellcore-dr5. **Note:** You can define up to 8 cadence rings. The value of -1 indicates “do not repeat”.
Format	Integer
Default Value	500,-1
Range	N/A
Example	bellcore cadence dr5: 500,-1

Speeddial Key Editing via IP Phone UI

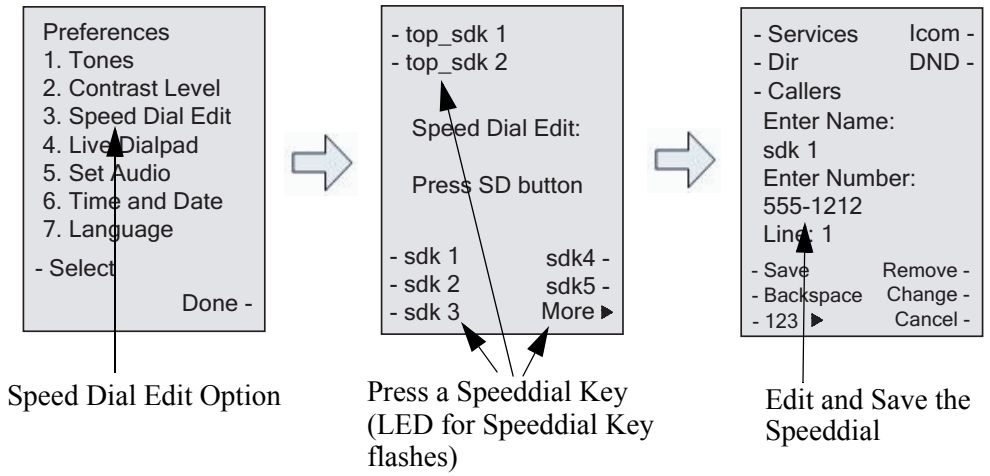
The IP phones have a feature called a “Press-and-Hold” Speeddial feature introduced in Release 2.0. Editing the speeddial key could only be accomplished using the Aastra Web UI.

In Release 2.1.1, you can now edit a speeddial key using the IP Phone UI as well. The following illustrations show the path in the IP Phone UI for editing a speeddial key.

53i IP Phones



55i, 57i, 57i CT IP Phones



Editing a Speeddial Key via the IP Phone UI

Aastra IP Phone UI	
Step	**Action**
1	Press the **Options** key.
2	Select **Preferences** from the Options List.
3	Select **Speed Dial Edit.** All current speeddial key LEDs flash RED (for softkeys, programmable keys, expansion module keys). All other softkey LEDs turn off, during this process. After the User presses a speeddial key for editing, the phone restores all softkey LEDs to their previous state. **Note:** On the 55i, 57i, and 57i CT, if there are more than 6 speeddial keys configured on the top or bottom softkeys, a MORE key displays allowing you to go to the next screen to display the additional speeddial keys.

Aastra IP Phone UI

Step	Action
4	Press a speeddial key you want to edit. The speeddial edit screen displays. The phone restores all softkey LEDs to their previous state. On the 53i, the edit screen allows you to change the Speeddial Number and Line setting. On the 55i, 57i, and 57i CT, the phones allows you to change the Speeddial Name, Number and Line setting. **Notes**: **1.** If a number on the keypad is setup as a speeddial key, pressing the applicable number in the speeddial editing process also displays the speeddial edit screen. **2.** If you press a key that is NOT setup as a speeddial key, the phone displays an "***Invalid Key***" message. Likewise, on the 55i, 57i, and 57i CT, pressing a softkey set as "**Empty**" or "**None**" displays an "***Invalid Key***" message. However, on the 53 and 55i, pressing a programmable key, expansion module key, or a press-and-hold digit key, initiates the "**Add a Speeddial Key**" process allowing you to setup a new speeddial key. For more information, see "Pressing on an "Empty" or "None" Key Sets a New Speeddial Key (53i, 55i)" on page 26.
5	Edit the speeddial information as applicable and press **SAVE.** (You can press **SAVE** or ▶ (right arrow) key on the 53i). **Notes**: **1.** You can cancel out of the speeddial editing process at any time without saving, by pressing the key. Pressing this key displays the idle screen. **2.** On the 53i, you can also use the ▲ (up arrow) key to cancel when in **Extension** editing or the ◀ (left arrow) key to cancel if in **Line** editing. Pressing either of these keys display the idle screen. **3.** On the 53i, you can remove the Speeddial Key by erasing the speeddial number digits (leaving the speeddial value blank) and then press **SAVE** or the ▶ (right arrow) key. Use the ◀ (left arrow) key to delete the digits. For the 55i, 57i and 57i CT, you can completely remove the Speeddial Key by pressing **REMOVE.**

Pressing on an “Empty” or “None” Key Sets a New Speeddial Key (53i, 55i)

On the 53i and 55i, if you try to edit a programmable key set to “**Empty**” or “**None”**, the phone proceeds to enter the “**Add a Speeddial Key**” process. This is also true for the keys on expansion modules. Likewise, if you press a press-and-hold digit key on the keypad to attempt editing, the “**Add a Speeddial Key**” process initiates. The phone allows you to setup a speeddial key on the key that you pressed.

Note: This feature is applicable only to the programmable keys, the keys on expansion modules attached to the 53i and 55i, and the press-and-hold digits on the keypad.

For more information about setting up a Speeddial Key on the phones, see your *Model-Specific IP Phone User Guide*.

Enhancements to "Incoming Call Interrupts Dialing" Feature

The "**Incoming Call Interrupts Dialing**" feature introduced in Release 2.1 has been enhanced to work more efficiently.

In previous releases, if the "**Incoming Call Interrupts Dialing**" feature was disabled, and you were dialing out on your phone, and you received an incoming call at the same time, the incoming call would go to an available line and the LED would blink to let you know where the call was placed by the phone. The Caller ID would display on the LCD and the number you were dialing disappears. If you wanted to continue dialing out, you would have to press the Line key for which you were originally dialing out on. If "Incoming Call Interrupts Dialing" is enabled, the incoming call interrupts your dialing sequence and displays to the phone's LCD for you to answer.

In Release 2.1.1, the behavior for "Incoming Call Interrupts Dialing" has been modified. Now when this feature is disabled, the incoming call goes to an available line, the LED blinks, but the LCD screen still displays the number you were dialing. When this feature is enabled, it performs the same as in previous releases.

Transfer/Conference Call Behavior

If you are dialing the phone to transfer or conference a call, and your phone receives an incoming call, your dialing is never interrupted (regardless of whether the "Incoming Call Interrupts Dialing" is enabled or disabled). For Transfer and Conference, the incoming calls always go to an available line (other than the one you are using for dialing) and the incoming call's line LED blinks. The LCD still displays your dialing screen.

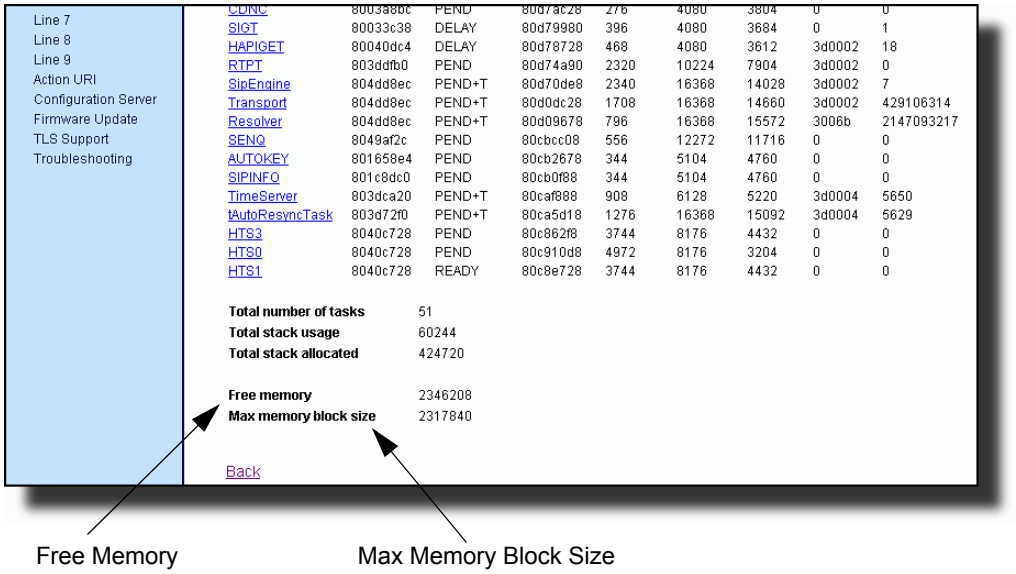
Intercom Behavior

If "**Incoming Call Interrupts Dialing"** is enabled and you are dialing an outgoing Intercom call, the enabled interrupt setting takes precedence over an enabled "**Allow Barge In**" setting. The incoming call interrupts your dialing on an outgoing intercom call. On an incoming intercom call, the enabled "**Allow Barge In**" and "**Auto-Answer**" occurs while you are dialing to transfer or conference the call. However, the incoming call goes to an available idle line, and the LED blinks while you are dialing the second half of the conference or transfer.

If "**Incoming Call Interrupts Dialing"** is disabled, an incoming intercom goes to an available idle line and the LED blinks for that line. The phone answers the call under all conditions.

Memory Status Now Displays in Task Status

The IP Phones can now report the **Free Memory** and the **Max Block Free Memory** of the phone in the ***Troubleshooting->Support Info->Show Task and Stack Info*** of the Aastra Web UI. This information is for troubleshooting purposes only.



Configurable DNS Queries

The domain name system (DNS) is the way that Internet domain names are located and translated into Internet Protocol addresses. A domain name is a meaningful and easy-to-remember identifier for an Internet address.

The lists of domain names and IP addresses are distributed throughout the Internet in a hierarchy of authority within a database of records. There is usually a DNS server within close proximity to your geographic location that maps the domain names in your Internet requests or forwards them to other servers in the Internet.

The IP Phones support three methods of DNS lookups allowing it to adapt to various deployment environments: **eNone**, **eSRV**, and **eNAPTR&SRV**. (See the following table for a description of each method). When the IP Phone accesses the Internet, it sends out a DNS query to the proxy to lookup the IP address and the port, and then waits for a response from the proxy.

You can configure the phone to use any one of these methods by entering the applicable value in the configuration files:.

Configuration File Value	DNS Server Method Used	Description
0	**A only**	The phone sends "**A**" (Host IP Address) lookup for the IP address and uses the default port number of 5060.
1	**SRV & A**	The phone sends "**SRV"** (Service Location Record) lookup to get the port number. Most often, the IP address is included in the response from the DNS server to avoid extra queries. If there is no IP address returned in the response, the phone sends out the "**A**" DNS lookup to find the IP address.
2	**NAPTR & SRV & A**	First, the phone sends "**NAPTR**" (Naming Authority Pointer) lookup to get the "**SRV**" pointer and service type (such as "aastra.com SIP+2DT .... _sip.tcp.aastra.net", which means the service perfers to use TCP and "_sip.tcp.aastra.net" for the SRV query instead of the default "_sip._tcp.aastra.com"). If the NAPTR record is returned empty then the default value is used, so in the same case, the phone will use "_sip._udp.aastra.com" for the next step lookup. Next, the phone does SRV lookup to get the IP address and port number. If there is no IP address in the SRV response then it sends out and "**A**" lookup to get it.

Note: On the phone side, if you configure the phone with a Fully-Qualified Domain Name (FQDN) proxy and specified port, the phone always sends "**A only**" lookups to find the Host IP Address of the proxy.

Configuring the DNS Query Method

You can configure the DNS query method for the phone to use for performing DNS lookups using the following parameter in the configuration files:

Parameter– *sip dns query type*	**Configuration Files** aastra.cfg, <mac>.cfg
Description	Specifies the Domain Name Service (DNS) query method to use when the phone performs a DNS lookup.
Format	Integer
Default Value	1
Range	**0** **A only** - The phone sends "A" (Host IP Address) lookup for the IP address and uses the default port number of 5060. **1** **SRV & A** - The phone sends "SRV" (Service Location Record) lookup to get the port number. Most often, the IP address is included in the response from the DNS server to avoid extra queries. If there is no IP address returned in the response, the phone sends out the "A" DNS lookup to find the IP address. **2** **NAPTR & SRV & A** - First, the phone sends "**NAPTR**" (Naming Authority Pointer) lookup to get the "**SRV**" pointer and service type (such as "aastra.com SIP+2DT .... _sip.tcp.aastra.net", which means the service perfers to use TCP and "_sip.tcp.aastra.net" for the SRV query instead of the default "_sip._tcp.aastra.com"). If the NAPTR record is returned empty then the default value is used, so in the same case, the phone will use "_sip._udp.aastra.com" for the next step lookup. Next, the phone does SRV lookup to get the IP address and port number. If there is no IP address in the SRV response then it sends out and "**A**" lookup to get it. **Note:** On the phone side, if you configure the phone with a Fully- Qualified Domain Name (FQDN) proxy and specified port, the phone always sends "A only" lookups to find the Host IP Address of the proxy.
Example	sip dns query type: 2

Issues Resolved on Series 5i Phones in Release 2.1.1

This section describes the issues resolved on the Series 5i IP phones in release 2.1.1. The following table provides the issue number and a brief description of each fix.

Note: Unless specifically indicated, these resolved issues apply to all phone models.

Issue Number	Description of Fix
User Interface	
DEF06046	57i CT - The **Mute** key on the base unit now performs correctly for intercom calls between the base unit and the cordless handset.
DEF06281	When you configure the Callers List and Directory List keys as a softkey, exiting these lists now immediately quits without displaying the Services Menu.
DEF06852	53i - Changing the volume no longer causes the clock time to disappear for 5 seconds.
CLN07538	When pressing the re-mapped **Conf** key during a call, it now sends DTMF digits inband rather than opening up a new line and dialing.
BLA	
ENH06880	When you quickly switch between BLA lines to select a line to dial out on, it no longer causes the phone to freeze.
XML	
DEF07025	The XML **Answer** and **Ignore** softkeys now disappear as they should when the top softkeys or programmable keys are used to answer an incoming call.
Aastra Web UI	
DEF07367	**53i** - Removed the "**Save**" and "**Delete**" from the drop down list on the expansion module key page in the “Type” field.
DEF07407	The **Missed Call Summary** parameter in the Aastra Web UI on the Global SIP page now correctly prompts the user to reboot the phone after modifying it.

Issue Number	Description of Fix
SIP	
DEF07467	When a user dials a number and the far-end is ringing, and then the user hangs up while the far-end is still ringing, the phone now correctly sends an ACK in response to a 487 message, which cancels the call and stops the ringing at the far end.
DEF07626	The phones now correctly quotes # and * characters in the Caller ID portion of the To and From SIP headers.
CLN07996	Contact header is now correctly formed in 200 OK responses to NOTIFY messages for MWI events.
DEF08054	Calls are now correctly cleared down in glare scenarios with reINVITE and BYE messages.
Robustness	
DEF07469	Phone no longer hangs when it can't find a voice CODEC to use for a call.
DEF07489	Phone no longer hangs when it receives a NOTIFY packet without the required Event header.
DEF07650	Phones with expansion modules attached no longer randomly hang when the directory is exited.
CLN07693	Miss-configured dial plans no longer cause the phone to hang.

Contacting Aastra Telecom Support

If you've read this release note, and consulted the Troubleshooting section of your phone model's manual and still have problems, please send inquiries via email to support@aastra.com.

Generic SIP IP Phone
Model 5i Series

2.1.1 Release Notes

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